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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/690,313	10/17/2000	James L. Keesey	STL920000052US2/A8504	3435
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SUGHRUE MION PLLC USPTO CUSTOMER NO WITH IBM/SVL 2100 PENNSYLVANIA AVENUE, N.W. WASHINGTON, DC 20037			EXAMINER HAN, QI	
			ART UNIT 2626	PAPER NUMBER
			MAIL DATE 08/11/2009	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 09/690,313	Applicant(s) KEESEY ET AL.	
	Examiner QI HAN	Art Unit 2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 January 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,5-16,18-29 and 31-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5-16,18-29 and 31-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Response to Arguments

2. Applicant's arguments filed on 01/08/2009 with respect to the claim rejection under 35 USC 103, have been fully considered but they are not persuasive.

In response to applicant's arguments (regarding claims 14, 1 and 27) that “D'hoore does not use the voice print to translate voice data to text” and “D'hoore does teach or suggest the voice print to translate voice data to text as required by the claims” (Remarks: page 2, paragraph 2 to page4, paragraph 1), the examiner respectfully disagrees with applicant's arguments and has a different view of prior art teachings and claim interpretations.

It is noted that the applicant appears to repeat the same or similar arguments that has been responded in previous office action (see the section of Response to Arguments and corresponding claim rejection filed on 08/08/2008). Even though the applicant recited the whole paragraph of the first aspect of the examiner's arguments (filed on 08/08/2008), the applicant's allegation that “examiner is reading subject matter into D'hoor that is simply not taught or suggest by the reference” lacks sufficient evidence(s) and/or analysis for support the allegation, which failed to **fully** respond to the previous examiner's arguments for supporting the rejection. For example, the applicant totally ignored the examiner's analysis and the corresponding prior art teachings that ‘speech recognition system is restricted to mapping (translating) the speech

Art Unit: 2626

onto language specific symbols (text)', 'these voice prints can be used to recognize utterances of the trained word by the speaker', and '...it (voice print) can **also** be used to check or detect the identity of the speaker (clearly implying using voice print for speech recognition (i.e. speech-to-text) and/or speaker identification' (D'hoore: col. 7, lines 32-55). Particularly, the applicant intentionally silenced about the recognized words/symbols being text as result/output of a speech recognition, which is common knowledge in the art. Therefore, the new applicant's arguments/allegation cannot overcome the previous claim rejection and the examiner's arguments, which is recited as following:

"Firstly, the applicant's arguments (Remarks: page 4, paragraphs 2-3) appear to suggest that the speech recognition does not convert (translate) speech (voice data) into text (symbols) only because D'hoore does not expressly use the words "translate" and "text". However, this is not persuasive because one of ordinary skill in the art would have recognized that these words could be replaced by other equivalent words, such as convert/recognize/map/match and symbol/words/written-string, and converting speech into text (speech-to-text) would be an implicit/necessary functionality of speech recognition, in nature. It is noted that, D'hoore indeed uses the equivalent (or alternative) words to teach that 'speech recognition system is restricted to mapping (translating) the speech onto language specific symbols (text)' (D'hoore: col. 7, lines 36-38). D'hoore also teaches that 'the system will automatically construct the best possible phoneme or model unit sequence to describe the word (text), based on the phoneme model database and the uttered speech', 'this sequence is referred to as a voice print' that 'can be used to recognize utterances of the trained word by the speaker', and 'it can **also** be used to check or detect the identity of the speaker' (D'hoore: col. 7, lines 32-55). One of ordinary skill in the art would have readily recognized that D'hoore's disclosure teaches the two different features: speech recognition that maps speech to text (symbols) and speaker identification (or verification) that identifies a targeted speaker, both using voice print."

Finally, it is necessarily pointed out that the prior art (such as D'hoore) teachings should be treated as a whole, but the applicant failed to do so. It can be seen that the applicant's arguments only emphasized D'hoore's speech recognition to recognize pronunciations words or produce phoneme models (corresponding to spoken words), but completely refused/ignored to face/analyze the recognized words/symbols (corresponding to textual words), which is a basic goal/result/output of a speech recognition system in the art.

Art Unit: 2626

For above reasons, the applicant's arguments are not persuasive and the rejection is sustained.

Claim Rejections - 35 USC § 103

3. Claims 1-3, 5-16, 18-29, 31-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over HEDIN et al. (US 6,185,535 B1) hereinafter referenced as HEDIN in view of KING (US 6,532,446 B1) and D'HOORE et al. (US 6,085,160) hereinafter referenced as D'HOORE.

Regarding **claim 14**, HEDIN discloses 'voice control of a user interface to service applications' (title), comprising:

"a device for receiving and transmitting data" (Fig. 1a and col. 4, lines 25, 'the client part 101 (corresponding to device) receives speech (data) from user', 'those words (data) ...sent (transmit) to the server part 103');

"a computer having a data store coupled thereto, wherein the data store stores data, connected to the device" (Fig. 1 and col. 4, lines 46-50, 'the server (a computer) part 103 is implemented in a separated processor (computer)' that 'is more powerful (e.g., faster, more storage space (data store), etc.)', 'the first digital link 105 for coupling (connecting) the client and server part 101, 103 may be wireless or wireline'); and

"one or more computer programs, performed by the computer" (col. 6, lines 31-35, 'various embodiments may utilize one or more programmable elements (computer programs) executing a stored program to perform a number of functions') for:

"receiving voice data and a device identifier from the device" (col. 5, lines 20-22, 'the server...uses its own, more powerful ASR to analyze the received speech (voice

Art Unit: 2626

data)'; col. 4, lines 62-63, 'through WAP URL (interpreted as device identifier', wherein WAP also inherently includes device identifier(s) for both sides of communication; also see col. 1, lines 21-34);

"translating the voice data to text", (col. 5, lines 20-22, 'the server...uses its own, more powerful ASR (speech-to-text) to analyze the received speech (voice data); col. 6, lines 6-7, 'the spoken text will either be recognized and converted (translated) to text by the ASR in the client 101, or alternatively by the ASR in the gateway/proxy part 107 (replacing server part 103)');

"determining whether to filter the translated text" and "if it is determined that the translated text is to be filtered, applying a filter to the translated text", (col. 5, lines 43-55 'when the data formats are different' determining 'to convert (filter) the data from one format to the other' (wherein converting formats is interpreted as filtering, in light of specification: see page 6, lines 16-20), 'conversion ...not only substituting (formatting) keywords from one format to another (e.g. from HTML (text) to WML), but also some level of filtering to weed out data that cannot be received by the terminal...').

HEDIN does not expressly disclose "the translated text is returned to the device."

However, the feature is well known in the art as evidenced by KING who discloses 'server based speech recognition user interface for wireless devices' (title), and teaches that 'the symbolic data file (corresponding to translated text) is then sent back to the originating mobile device' (col. 3, lines 16-19) and 'the processed symbolic data file...may be reformatted (filtered) ...then sent to the requesting mobile device or to a designated third party device' (col. 10, lines 32-48).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention

Art Unit: 2626

was made to modify HEDIN by providing sending the recognized/converted/reformatted symbolic data (text) back to the originating device (or a designated third party device), as taught by KING, for the purpose (motivation) of improving the usability and commercial viability of network for using speech recognition services (KING: col. 2, lines 37-43).

Further, it is noted that HEDIN in view of KING does not expressly disclose "the voice data is translated to text **using a voice print**" that "is retrieved from datastore based on the device identifier". However, the feature using voice print for speech recognition is well known in the art as evidenced by D'HOORE who discloses 'language independent speech recognition' (title), and teaches that 'the words in the vocabulary of recognizable word may be described by a voice print...' (col. 2, lines 1-5), 'speaker dependent training of words, try to find the best possible phonetic representation for a particular word based on a few utterances of that word(s) by the user', 'speech recognition system...mapping (translating) the speech onto language specific symbols (text)' and 'these voice prints can be used to recognize utterances of the trained word by the speaker' (col. 7, lines 32-55). Further, as stated above, since HEDIN discloses that 'in a multi-user environment, each user's profile must be stored (datastore)' (col. 1, lines 66-67; also col. 8, lines 56-58) and using WAP URL (device identifier) (col. 4, lines 62-63), and D'HOORE discloses speech recognition and speaker identification using voice prints (col. 7, lines 45-55), one of ordinary skill in the art would have recognized that voice print would be readily and properly stored in the corresponding user profile using WAP URL (as device identifier) for future retrieving and the storing/retrieving result would be predictable for the ordinary skilled person, because voice print is user specific information and user profile is most suitable place to keep user specific information. Therefore, it would have been obvious to one of

Art Unit: 2626

ordinary skill in the art at the time the invention was made to combine teachings of HEDIN in view of KING and D'HOORE by providing speech recognition (voice translation) using voice prints and storing the voice prints in the corresponding user profile using WAP URL (as device identifier) for retrieving, for the purpose (motivation) of trying to find the best possible phonetic representation based on user-uttered words (text) and/or better matching the speech of the targeted speaker for speech recognition (D'HOORE: col. 7, lines 34-53).

Regarding **claim 15** (depending on claim 14), HEDIN in view of KING and D'HOORE further discloses “storing a user profile in a data store connected to the computer”, (HEDIN: col. 1, lines 66-67, ‘in a multi-user environment, each user’s profile must be stored’; col. 8, lines 56-58, ‘the RAP server 205’ ‘may be implemented as a multi-user, central WAP application server’).

Regarding **claim 16** (depending on claim 15), HEDIN in view of KING and D'HOORE further discloses “user profile comprises a voice print” (HEDIN: col. 1, lines 66-67, ‘each user’s profile must be stored’; D'HOORE: col. 7, lines 45-55, ‘voice prints... can also be used to check or detect the identity of the speaker’; so that it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify HEDIN in view of KING and D'HOORE by providing a voice print in a user profile, because voice print is user specific information and user profile is most suitable place to keep user specific information).

Regarding **claim 18** (depending on claim 14), HEDIN in view of KING and D'HOORE further discloses “determining comprises extracting one or more key words from the translated text”, (HEDIN: col. 5, lines 45-55 ‘conversion ...not only substituting keywords from one format to another (e.g. from HTML (text) to WML), but also some level of filtering to weed out data

Art Unit: 2626

that cannot be received by the terminal'; HEDIN: col. 5, lines 24-28, 'the recognized speech (the translated text) may consist of commands (keywords) for controlling the server application, in which case the command are acted upon' (implying the command is extracted); HEDIN: col. 9, lines 59-67, 'if the ASR 307 looks for...the phrase "***CALL***", then the ASR 107 will detect (corresponding to extract) that the unrecognized isolated word consists of the word "**CALL**" with another unrecognized part following it').

Regarding **claim 19** (depending on claim 18), HEDIN in view of KING and D'HOORE further discloses "a filter is selected based on one or more extracted key words" (HEDIN: col. 5, lines 43-55, 'conversion ...not only substituting (formatting) keywords from one format to another (e.g. from HTML (text) to WML), but also some level of filtering to weed out data that cannot be received by the terminal...'; col. 15, lines 59-66, the devices used for the applications can be 'a WAP-enabled phone', 'electronic notepads', or 'windows-based' 'computer'; col. 5, lines 24-26, 'the recognized speech (text) may consist of commands (extracted keywords) for controlling server application'; col. 9, lines 55-67, 'TP (terminal part) command words (extracted keywords, such as "**CALL**")'; col. 5, lines 59-66, different 'services' and/or 'applications' that request displaying menus; it would have been obvious to one of ordinary skill in the art at the time the invention was made to recognize that the recognized commands (keywords) could be associated with different devices or applications that have different textual display formats, such as menus, so as to combine the different teachings of HEDIN together by providing different text formats for different devices and/or applications based on the recognized commands (keywords), for the purpose (motivation) of providing enhanced and extended services/applications in advanced mobile networks for the user (HEDIN: col.4, lines 63-65)).

Art Unit: 2626

Regarding **claim 20** (depending on claim 14), HEDIN in view of KING and D'HOORE further discloses "applying the filter comprises formatting the translated text", (HEDIN: col. 5, lines 45-55 'when the data formats are different... convert (filter) the data (translated text) from one format to the other', 'conversion ...not only substituting (formatting) keywords from one format to another (e.g. from HTML (text) to WML), but also some level of filtering to weed out data that cannot be received by the terminal...').

Regarding **claim 21**(depending on claim 20), HEDIN in view of KING and D'HOORE discloses "formatting the translated text for an application", (HEDIN: col. 5, lines 50-55, 'if the server 109 is an application that is accessible via the Internet...pass on to the client 101 only that data (text data) that is appropriate'; col. 14,10-21,'weather information service' (application); col. 15, lines 55-67; interactive voice controlled services (applications)').

Regarding **claim 22** (depending on claim 20), HEDIN in view of KING and D'HOORE further discloses "formatting the translated text for the device", (HEDIN: col. 15, lines 62-63, 'voice-enabled special devices, such as electronic notepads').

Regarding **claims 23-24 and 26** (depending on claim 14), the rejection is based on the same reason described for claim 14, because it also reads on the limitations of claims 23-24 and 26 respectively.

Regarding **claim 25** (depending on claim 24), HEDIN in view of KING and D'HOORE further discloses "returning the filtered text via an electronic mail message", (KING: col. 2, lines 63-64, 'email').

Regarding **claims 1-3 and 5-13**, they recite a method. The rejection is based on the same reason described for claims 14-16 and 18-26 respectively, because the method claims and

Art Unit: 2626

apparatus claims are related as apparatus and method of using same, with each claimed element's function corresponding to the claimed method step.

Regarding **claims 27-29 and 31-39**, they recite an article of manufacture. The rejection is based on the same reason described for claims 14-16 and 18-26 respectively, because the article claims and apparatus claims are related as apparatus and article of using same, with each claimed element's function corresponding to the claimed article element's function.

Regarding **claim 40** (depending on claim 1), HEDIN in view of KING and D'HOORE further discloses "the device identifier comprises a unit identifier which identifies a particular device operated by a user" (KING: col. 6, line 41-42, 'the contact information ...(e.g. a phone number or a uniform resource indicator (URI), which is read on unit identifier) may be embedded in software loaded on the mobile device'; col. 9, lines 53-58, 'each of the mobile devices serviced by link server device is assigned an identification (ID) or device (ID)' (read on unit identifier) and 'a device ID can be a phone number of the device or an IP address or a combination of an IP address and a port number', it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine teachings of HEDIN, KING and D'HOORE by providing an ID for each device, such as using a phone number, IP address, or URI for each of mobile devices, taught by KING, for the purpose (motivation) of identifying mobile device to outside entities and corresponding the device with associated user account (KING: col. 8, lines 38-43)).

Art Unit: 2626

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Please address mail to be delivered by the United States Postal Service (USPS) as follows:

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Art Unit: 2626

Any inquiry concerning this communication or earlier communications from the examiner should be directed to QI HAN whose telephone number is (571)272-7604. The examiner can normally be reached on M-TH:9:00-19:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571)-272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

QH/qh

August 10, 2009

/QI HAN/

Primary Examiner, Art Unit 2626